World-class science education
is in **our DNA**



Cambridge IGCSE™ Sciences

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More than **70 subjects** at Cambridge IGCSE level

Cambridge qualifications – **more subject choice** than any other international education provider

10 000 schools in **160** countries

The Cambridge difference

We are the world's largest provider of international education for learners aged 3 to 19 and provide a clear path for educational success: the Cambridge Pathway.

Ready for the world

An international education from Cambridge makes sure students are ready for the world, helping them thrive in their education and beyond.

Building knowledge, skills and understanding for life

We want students to enjoy and take ownership of their learning. Through the Cambridge Pathway, students really learn how to think independently – laying foundations of deep subject knowledge, skills and understanding that they can build on throughout their lives.

Equipping teachers for success

Teachers are at the heart of successful learning. When teachers feel equipped and valued, learners thrive. That is why we offer comprehensive, high-quality support and professional development at every step.

A uniquely aligned approach

Our curriculum, assessments and teaching support work seamlessly together to give teachers the tools they need. We offer a wide range of subjects so you can build a curriculum that suits your learners and your local context to help every learner reach their potential.

Education valued and recognised worldwide

Cambridge qualifications open up a world of opportunities, whether students want to progress to further study internationally or in their home country.

Setting a global standard

As part of the University of Cambridge, we draw on world-class research – and expertise from our global community of educators – to help schools offer the highest quality education. Together, we prepare learners for the challenges and opportunities ahead.

We are the only international exam board owned by a world-leading university: the University of Cambridge. We draw on a legacy of scientific discoveries that shaped the modern world, such as the laws of gravity, the electron and the structure of DNA.

World-class science is in our genes.

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Why Cambridge IGCSE Sciences?

Created more than 30 years ago, Cambridge IGCSE has always led the way.

We are part of the University of Cambridge, the birthplace of groundbreaking scientific breakthroughs, our work is informed by the latest evidence-based research and underpinned by many decades of teaching, learning and assessment experience.

Today, Cambridge IGCSE is the world's most popular international qualification for 14 to 16 year olds and is trusted worldwide to develop scientists and scientific thinking.

Whether your students want to be doctors, engineers, entrepreneurs or teachers – or to have a strong science foundation for any career path – we can provide a world-leading upper secondary science education for them to draw on throughout life.

Science for everyone

We provide a flexible, stage-based approach to help build scientific and conceptual understanding – from Cambridge Primary through to Cambridge International AS & A Level.

Science for the Cambridge Pathway

Cambridge Primary (ages 5 to 11) and Cambridge Lower Secondary (ages 11 to 14): Develops a lifelong curiosity about the natural world and helps learners to seek scientific explanations of the phenomena around them.

Cambridge Upper Secondary (ages 14 to 16): Builds the core principles and concepts that are fundamental to science with an emphasis on practical skills.

Cambridge Advanced (ages 16 to 19): Encourages deeper conceptual understanding, advanced practical skills and creative problem-solving, preparing students for university study and science-related careers.

The widest choice of science syllabuses

We know how important it is to have a choice of options: Cambridge offers more International GCSE Science options than any other awarding body.

As well as individual science syllabuses, such as biology, chemistry and physics, students can choose combined or double award science and other science-related subjects.

We regularly review our qualifications to make sure they are up to date and reflect best practice. We also consult with teachers who are delivering Cambridge sciences in their classrooms and use their feedback.

Cambridge IGCSE Science syllabuses:

- Biology
- Chemistry
- Physics
- Science – Combined
- Sciences – Co-ordinated (Double Award)

Other science-related syllabuses:

- Agriculture
- Environmental Management
- Marine Science
- Physical Education

The most solid foundation

Cambridge science syllabuses combine theoretical and practical learning, building subject knowledge, conceptual understanding and higher order thinking skills.

They are perfect for all learners, whether they want to:

- develop skills to be ready for the next step in education or employment
- study science beyond Cambridge IGCSE
- specialise before progressing to study science at university
- follow a science career path.



Unmatched support

We equip teachers for success through resources and training for high-quality teaching. The School Support Hub includes schemes of work, specimen paper answers, past papers, example candidate responses, Everyday Science and Resource Plus, as well as endorsed resources.



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World-class science education made more accessible



Tiered options

We understand that students learn at different paces, in different ways and with different aspirations. To support this, we offer a choice between Core and Extended routes in most of our Cambridge IGCSE Science syllabuses, so that you and your students can decide on the most appropriate route.*

Core route

- Provides core knowledge and understanding of the subject.
- Within the ability range of most students.
- Aimed at students expected to achieve a:
  - grade D or below, with the maximum grade achievable being a C
  - grade 3 or below, with the maximum grade achievable being a 5.

Extended route

- In addition to the Core route, the Supplement sets out extra topics and in more depth.
- Designed for more confident students expected to achieve a:
  - grade C or above
  - grade 4 or above.
- Leads naturally into further science study.

*Currently for science: biology, chemistry, physics, science – combined, sciences – co-ordinated (double award)



> **Cambridge Digital Exams Service has allowed us to give students a seamless, intuitive exam experience. It's a great step forward in digital assessment.**
>
> Exams Officer / **Bahrain**

A choice of assessment options

We offer flexibility in how schools deliver exams:

Practical assessment

Universities want to see evidence that a student has undertaken practical work during their science studies. Practical work improves understanding of the principles of scientific enquiry and theory. It also helps develop skills relevant to all subjects, such as critical thinking and problem-solving, working in a team and communicating with peers.

The practical exam is hands-on, in-person lab work assessing experimental skills. For schools with limited laboratory space, we can arrange for multiple exam sessions on the same day.

Alternative to Practical (ATP)

For schools without laboratory resources or equipment, we offer the option of a written paper: the Alternative to Practical. This assesses practical skills through experimental scenarios, data analysis and familiarity with standard laboratory equipment.

Digital exams

Our world has become digitised; education is no exception. Our digital exams are education led, learner focused and grounded in research, testing and feedback.

Cambridge IGCSE Biology, Chemistry and Physics will be available in a digital exam format for our Early Adopter Programme in June 2026 and in a global rollout from June 2027. Our digital exams provide the same rigour, validity and reliability as paper-based exams, but with added benefits that enhance accessibility and the learner experience.

Scan
Learn more about our **digital exams** on our website

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World-class skills, now and for the future

Cambridge learners achieve more than building confidence in understanding scientific concepts and explaining theories.

Cambridge sciences encourage communication, creative thinking and problem-solving skills. Skills like these are universally applicable across academic disciplines and career sectors, and enable learners to make a positive impact in a changing world.

Science qualifications highly valued worldwide

A Cambridge education opens doors, and our qualifications are regarded highly by universities and employers worldwide.

Our students are widely accepted in top study destinations like the US, UK and Australia. Some of the world's best universities tell us how well prepared Cambridge learners are and that they are equipped to succeed through having critical thinking skills, independent research abilities and deep subject knowledge.

Over 2500 universities in around **100 countries** formally recognise Cambridge qualifications.

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The scientists of tomorrow, today

The University of Cambridge boasts a legendary scientific legacy. 126 Nobel Prizes have been awarded to members of the University of Cambridge for significant advances. These include the:

- discovery of the structure of DNA
- development of a national income accounting system
- mastery of an epic and narrative psychological art
- discovery of penicillin.

Offering Cambridge IGCSE Sciences in your school gives your students the chance to follow in the footsteps of brilliant people, such as Newton, Darwin, Turing, Franklin and Hawking.

With Cambridge sciences, your learners could shape history and enrich society as the scientists of tomorrow.



Education for climate action

The best science education is forward-thinking and responsible: we see it as key to overcoming the climate crisis. We are therefore working actively to embed climate change education holistically across the Cambridge Pathway.

We believe that sustainability and climate issues should be taught throughout the curriculum. Our science curriculum breaks down the barriers between different disciplines to give students a wide range of scientific perspectives and mirror the complexity of real-world challenges.

The 2025 Cambridge University Press & Assessment and Cambridge Zero Convocation brought together educators, researchers and policymakers to explore how science education can equip students to address the climate crisis in meaningful and empowering ways.

We believe that education is crucial to tackling the climate crisis, so we have a great responsibility to carry this forward in everything we do. Our challenge is to help inspire and empower teachers and students to make a real contribution.

Christine Özden, **Global Director of Climate Education at Cambridge**

Which science syllabus?

No other awarding body offers more International GCSE Science options than Cambridge. As well as individual science subjects, students can study all three sciences within a dual or combined single Cambridge IGCSE, depending on their needs and aspirations.



Cambridge IGCSE		
Biology, Physics and Chemistry	**Co-ordinated Sciences**	**Combined Science**
These syllabuses offer the strongest progression to A Level and further learning in science.	These syllabuses offer good progression to A Level.	This syllabus offers a well-rounded foundation in science.
They are for learners who would benefit from deep science education and enjoy the stretch that these syllabuses offer.	Students will develop a good breadth of science knowledge. A good option if there is limited timetable time.	An option for students who need a good foundation in science but do not wish to pursue further studies in it.
Environmental Management	**Marine Science**	
This syllabus creates interest and enthusiasm about the environment, including climate change.	This syllabus encourages interest in marine science, deepens understanding of the marine environment and its ecosystem, and promotes environmental responsibility.	
Practical fieldwork explores strategies and their environmental impact. Students can progress to AS Level study in the subject.	Students will develop a good breadth of science knowledge. Students can progress to A Level study in the subject.	

Spotlight on our Cambridge IGCSE syllabuses

View information for each syllabus on the following pages.

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Cambridge IGCSE
Biology, Chemistry and Physics

(0610/0970), (0620/0971) and (0625/0972)

Topics

Students study the following topics within each subject:

Biology

- Characteristics and classification of living organisms
- Organisation of the organism
- Movement into and out of cells
- Biological molecules
- Enzymes
- Plant nutrition
- Human nutrition
- Transport in plants
- Transport in animals
- Diseases and immunity
- Gas exchange in humans
- Respiration
- Excretion in humans
- Coordination and response
- Drugs
- Reproduction
- Inheritance
- Variation and selection
- Organisms and their environment
- Human influences on ecosystems
- Biotechnology and genetic modification

Chemistry

- States of matter
- Atoms, elements and compounds
- Stoichiometry
- Electrochemistry
- Chemical energetics
- Chemical reactions
- Acids, bases and salts
- The Periodic Table
- Metals
- Chemistry of the environment
- Organic chemistry
- Experimental techniques and chemical analysis

Physics

- Motion, forces and energy
- Thermal physics
- Waves
- Electricity and magnetism
- Nuclear physics
- Space physics

Assessment objectives (AOs)

Assessment objectives as a percentage of the qualification:

Assessment objective	Weighting in IGCSE
AO1 Knowledge with understanding	**50%**
AO2 Handling information and problem-solving	**30%**
AO3 Experimental skills and investigations	**20%**
Total	**100%**

Assessment overview

All students take **three** papers. The grading depends on which syllabus they take and whether they choose the Core or Extended route.

Core route

Core students take **Paper 1** and **Paper 3**. The questions are based on the Core subject content only:

Paper 1: Multiple Choice (Core)	Paper 3: Theory (Core)
45 minutes	1 hour 15 minutes
40 marks	80 marks
40 four-option multiple-choice questions	Short-answer and structured questions
Externally assessed	Externally assessed
Weighting: 30%	**Weighting: 50%**

Or

Extended route

Extended students take **Paper 2** and **Paper 4**. The questions are based on the Core and Supplement subject content:

Paper 2: Multiple Choice (Extended)	Paper 4: Theory (Extended)
45 minutes	1 hour 15 minutes
40 marks	80 marks
40 four-option multiple-choice questions	Short-answer and structured questions
Externally assessed	Externally assessed
Weighting: 30%	**Weighting: 50%**

Assessing practical skills

All students then have a **choice** to take either a practical test **or** alternative to practical assessment.

Paper 5: Practical Test		Paper 6: Alternative to Practical
1 hour 15 minutes		1 hour
40 marks		40 marks
Questions will be based on the experimental skills in section 4	**OR**	Questions will be based on the experimental skills in section 4
Externally assessed		Externally assessed
Weighting: 20%		**Weighting: 20%**

Exam availability

Exams are available in the **June** and **November** series, and also in **March for India only**.

We also offer biology, chemistry and physics at Cambridge International AS & A Level

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Cambridge IGCSE Co-ordinated Sciences (Double Award)

(0654/0973)



Topics

The subject content is divided into three sections: Biology (B1–B19), Chemistry (C1–C12) and Physics (P1–P6). Students must study all three sections:

Biology

- B1 Characteristics of living organisms
- B2 Cells
- B3 Movement into and out of cells
- B4 Biological molecules
- B5 Enzymes
- B6 Plant nutrition
- B7 Human nutrition
- B8 Transport in plants
- B9 Transport in animals
- B10 Diseases and immunity
- B11 Gas exchange in humans
- B12 Respiration
- B13 Coordination and response
- B14 Drugs
- B15 Reproduction
- B16 Inheritance
- B17 Variation and selection
- B18 Organisms and their environment
- B19 Human influences on ecosystems

Chemistry

- C1 States of matter
- C2 Atoms, elements and compounds
- C3 Stoichiometry
- C4 Electrochemistry
- C5 Chemical energetics
- C6 Chemical reactions
- C7 Acids, bases and salts
- C8 The Periodic Table
- C9 Metals
- C10 Chemistry of the environment
- C11 Organic chemistry
- C12 Experimental techniques and chemical analysis

Physics

- P1 Motion, forces and energy
- P2 Thermal physics
- P3 Waves
- P4 Electricity and magnetism
- P5 Nuclear physics
- P6 Space physics

Assessment objectives (AOs)

Assessment objectives as a percentage of the qualification:

Assessment objective	Weighting in IGCSE
AO1 Knowledge with understanding	**50%**
AO2 Handling information and problem-solving	**30%**
AO3 Experimental skills and investigations	**20%**
Total	**100%**

Assessment overview

All students take **three** papers. The grading depends on which syllabus they take and whether they choose the Core or Extended route.

Core route

Core students take **Paper 1** and **Paper 3**. The questions are based on the Core subject content only:

Paper 1: Multiple Choice (Core)	Paper 3: Theory (Core)
45 minutes	2 hours
40 marks	120 marks
40 four-option multiple-choice questions	Short-answer and structured questions
Externally assessed	Externally assessed
Weighting: 30%	**Weighting: 50%**

Or

Extended route

Extended students take **Paper 2** and **Paper 4**. The questions are based on the Core and Supplement subject content:

Paper 2: Multiple Choice (Extended)	Paper 4: Theory (Extended)
45 minutes	2 hours
40 marks	120 marks
40 four-option multiple-choice questions	Short-answer and structured questions
Externally assessed	Externally assessed
Weighting: 30%	**Weighting: 50%**

Assessing practical skills

All students then have a **choice** to take either a practical test **or** alternative to practical assessment.

Paper 5: Practical Test		Paper 6: Alternative to Practical
2 hours		1 hour 30 minutes
60 marks		60 marks
Questions will be based on the experimental skills in section 4	**OR**	Questions will be based on the experimental skills in section 4
Externally assessed		Externally assessed
Weighting: 20%		**Weighting: 20%**

Exam availability

Exams are available in the **June** and **November** series, and also in **March for India only**.



Cambridge IGCSE Combined Science

(0653)

Topics

The subject content is divided into three sections: Biology (B1–B16), Chemistry (C1–C12) and Physics (P1–P5). Students must study all three sections:

Biology

- B1 Characteristics of living organisms
- B2 Cells
- B3 Movement into and out of cells
- B4 Biological molecules
- B5 Enzymes
- B6 Plant nutrition
- B7 Human nutrition
- B8 Transport in plants
- B9 Transport in animals
- B10 Diseases and immunity
- B11 Gas exchange in humans
- B12 Respiration
- B13 Drugs
- B14 Reproduction
- B15 Organisms and their environment
- B16 Human influences on ecosystems

Chemistry

- C1 States of matter
- C2 Atoms, elements and compounds
- C3 Stoichiometry
- C4 Electrochemistry
- C5 Chemical energetics
- C6 Chemical reactions
- C7 Acids, bases and salts
- C8 The Periodic Table
- C9 Metals
- C10 Chemistry of the environment
- C11 Organic chemistry
- C12 Experimental techniques and chemical analysis

Physics

- P1 Motion, forces and energy
- P2 Thermal physics
- P3 Waves
- P4 Electricity
- P5 Space physics

Assessment objectives (AOs)

Assessment objectives as a percentage of the qualification:

Assessment objective	Weighting in IGCSE
A01 Knowledge with understanding	**50%**
A02 Handling information and problem-solving	**30%**
A03 Experimental skills and investigations	**20%**
Total	**100%**

Assessment overview

All students take **three** papers. The grading depends on whether they choose the Core or Extended route.

Core route

Core students take **Paper 1** and **Paper 3**. The questions are based on the Core subject content only:

Paper 1: Multiple Choice (Core)	Paper 3: Theory (Core)
45 minutes	1 hour 15 minutes
40 marks	80 marks
40 four-option multiple-choice questions	Short-answer and structured questions
Externally assessed	Externally assessed
Weighting: 30%	**Weighting: 50%**

Or

Extended route

Extended students take **Paper 2** and **Paper 4**. The questions are based on the Core and Supplement subject content:

Paper 2: Multiple Choice (Extended)	Paper 4: Theory (Extended)
45 minutes	1 hour 15 minutes
40 marks	80 marks
40 four-option multiple-choice questions	Short-answer and structured questions
Externally assessed	Externally assessed
Weighting: 30%	**Weighting: 50%**

Assessing practical skills

All students then have a **choice** to take either a practical test **or** alternative to practical assessment.

Paper 5: Practical Test		Paper 6: Alternative to Practical
1 hour 15 minutes	OR	1 hour
40 marks		40 marks
Questions will be based on the experimental skills in section 4		Questions will be based on the experimental skills in section 4
Externally assessed		Externally assessed
Weighting: 20%		**Weighting: 20%**

Exam availability

Exams are available in the **June** and **November** series, and also in **March for India only**.

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Cambridge IGCSE Environmental Management

(0680)

Topics

The syllabus is divided into seven topics that develop an understanding of both the natural and human environment.

- Natural resources
- Land
- Water
- The atmosphere and human activities
- Ecosystems, biodiversity and fieldwork
- Natural hazards
- Human population

Assessment objectives (AOs)

Assessment objectives as a percentage of the qualification:

Assessment objective	Weighting in IGCSE
A01 Knowledge with understanding	**43%**
A02 Handling information and problem-solving	**30%**
A03 Experimental skills and investigations	**27%**
Total	**100%**

Assessment overview

All students take two papers and will be eligible for Grades A* to G.

Paper 1:	Paper 2:
1 hour 45 minutes	1 hour 45 minutes
Principles of Environmental Management	Environmental Management in Context
80 marks	80 marks
This paper consists of short-answer and structured questions with extended-response questions based on source material	This paper consists of short-answer, data processing and analysis, and extended-response questions based on source material
Externally assessed	Externally assessed
Weighting: 50%	**Weighting: 50%**

Exam availability

Exams are available in the **June** and **November** series, and also in **March for India only**.

We also offer Cambridge International AS Level Environmental Management



Cambridge IGCSE Marine Science

(0697)

Topics

The syllabus is divided into six topics, which stimulates learners' interest in science of the marine world and enhances their understanding of its relevance to society.

- The Earth and its oceans
- Sea water
- Marine organisms
- Nutrients and energy
- Marine ecology
- Human influences on the marine environment

Assessment objectives (AOs)

Assessment objectives as a percentage of the qualification:

Assessment objective	Weighting in IGCSE
A01 Knowledge with understanding	**50%**
A02 Handling information and problem-solving	**30%**
A03 Experimental skills and investigations	**20%**
Total	**100%**

Assessment overview

All students take two papers and will be eligible for Grades A* to G.

Paper 1:	Paper 2:
1 hour 45 minutes	1 hour 45 minutes
Theory and Data Handling	Theory and Practical Skills
80 marks	80 marks
Short-answer and structured questions	Short-answer and structured questions
Externally assessed	Externally assessed
Weighting: 50%	**Weighting: 50%**

Exam availability

Exams are available in the **June** and **November** series.

We also offer Cambridge International AS & A Level Marine Science

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World-class science education with unrivalled support

Cambridge is renowned for providing unmatched high-quality, comprehensive support and training, with teaching and learning resources on our School Support Hub trusted by 1.5 million teachers and learners worldwide.

We work with subject and assessment specialists to design resources that support the learning and assessment outcomes of each syllabus. These are also shaped by feedback and insights from our schools.

We help you give your students the best possible preparation for every step in their education, and our professional development opportunities empower you to enhance your own practice.

HELP

Our Customer Support team is here to help **24 hours a day, 6 days a week** – wherever you are in the world.

Resources for every stage of your teaching journey.

Cambridge IGCSE Science support includes:

Planning and preparation

- Syllabuses
- Specimen materials
- Schemes of work

Teaching, learning and assessment

- Past papers and mark schemes
- Specimen paper answers
- Principal examiner reports
- Endorsed resources

Everyday Science See pages 22–23

Resource Plus See pages 24–25

Endorsed resources See pages 26–27

Professional development See page 30

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Everyday Science

Not all experiments require expensive lab equipment or chemicals. Everyday Science is a popular digital resource that covers key Cambridge IGCSE concepts. It helps learners carry out scientific investigations using everyday materials readily available in their homes or local area, such as paper towels or food colouring.

Students can complete the investigations independently, for example as a homework task, or in a normal classroom when lab time is limited or schools do not have a lab facility.

We have **15 experiments to choose from;** each one links to the experimental skills and investigations (AO3):

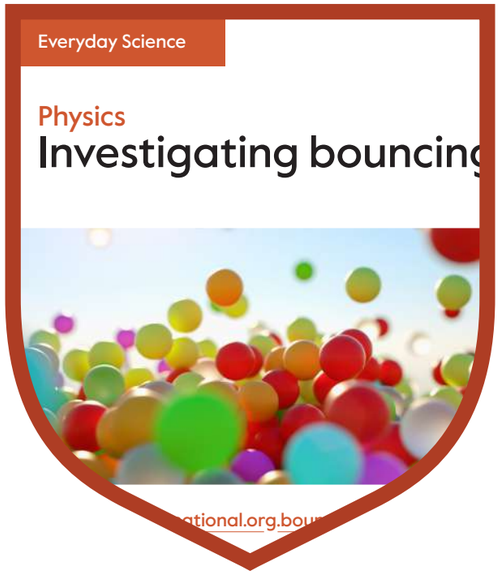
Cambridge IGCSE and O Level		
Biology	**Chemistry**	**Physics**
Investigating the effect of natural selection using model diving birds	Investigating the electrolysis of water	Investigating stability
Investigating the effect of gravity on plant growth	Investigating purification methods	Investigating static charge
Investigating the effect of osmosis using sweets	Investigating exo and endothermic reactions	Investigating the effects of forces on a bridge
Investigating plant competition	Investigating rate of reaction	Investigating helicopters
Investigating ventilation rate	Investigating chromatography	**Investigating bouncing balls**

Investigating bouncing balls

This Everyday Science experiment is designed to show how materials' properties can change with temperature. Students can investigate whether the temperature of a rubber ball affects its ability to bounce. For this, they simply need four bouncy rubber balls of equal size, a tape measure and access to a freezer, fridge and hot water.

Clear instructions and prompts are provided, with the opportunity to self-evaluate and share the work with the teacher.

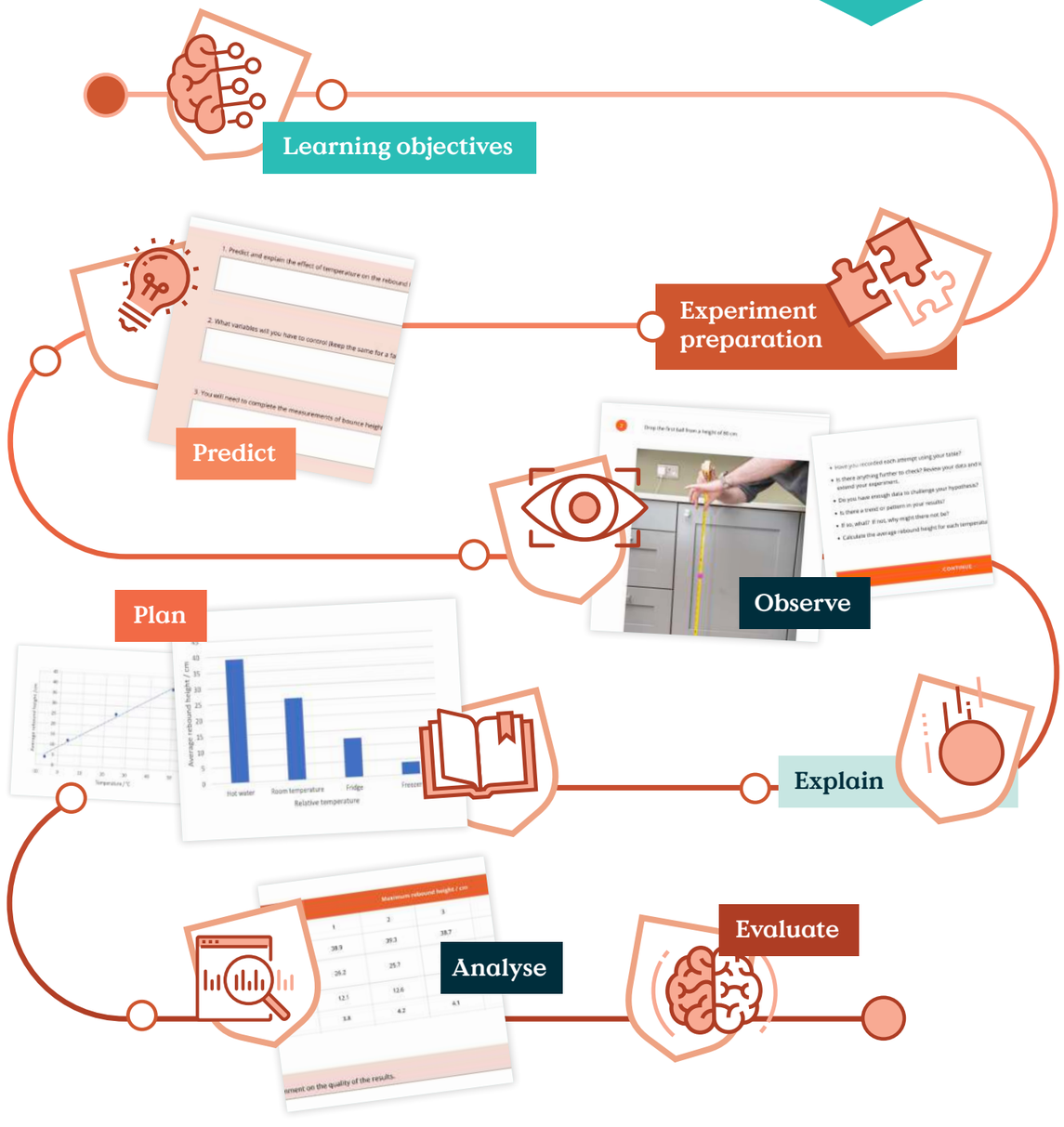
Scan
Visit the School Support Hub to learn more





Performing the experiment

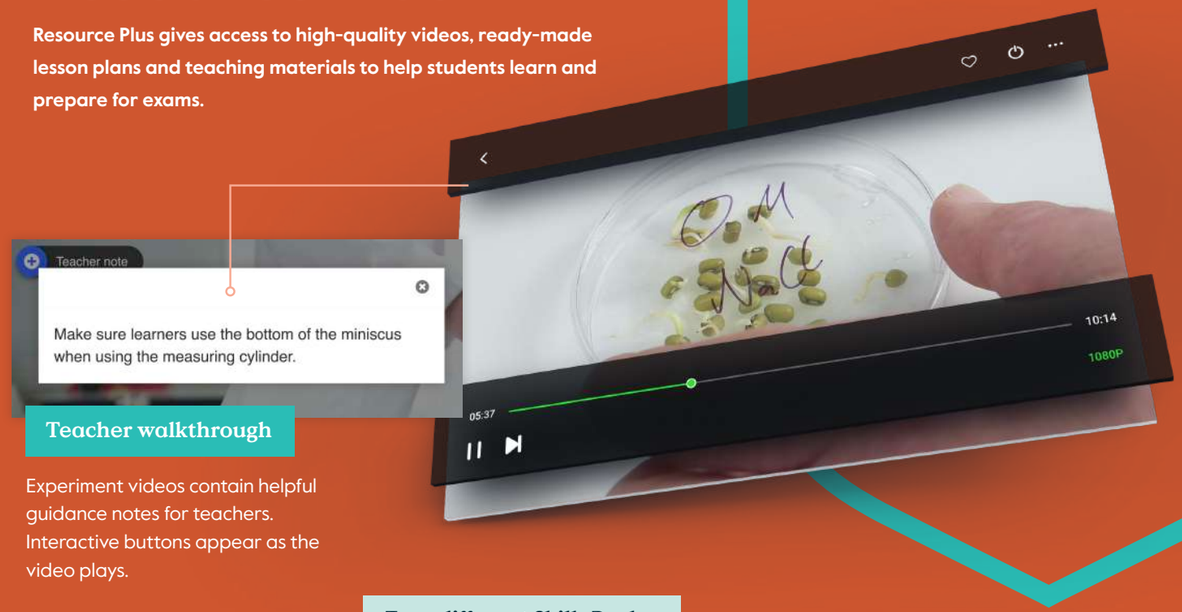
Students will learn about the scientific method as they go through each stage shown below. They store progress in a journal so they can review their findings, export work and submit it to teachers as evidence.



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Resource Plus

Resource Plus gives access to high-quality videos, ready-made lesson plans and teaching materials to help students learn and prepare for exams.



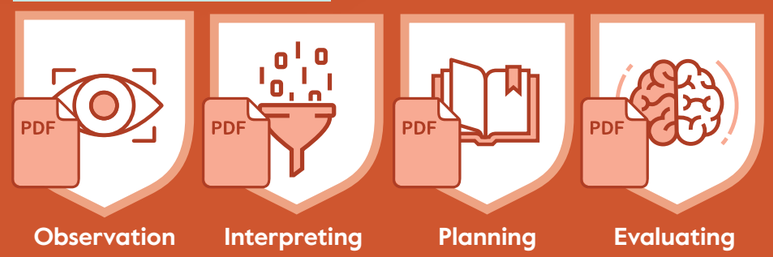
Teacher walkthrough

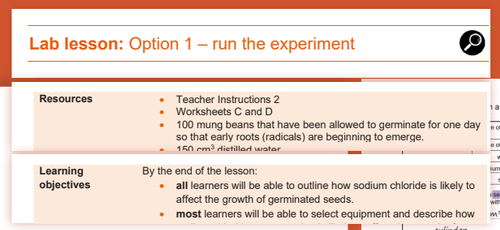
Experiment videos contain helpful guidance notes for teachers. Interactive buttons appear as the video plays.

Skills Packs

Designed to strengthen practical skills, such as planning experiments, handling data and analysis.

Four different Skills Packs



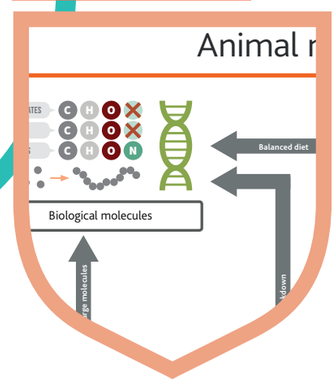


Revision materials

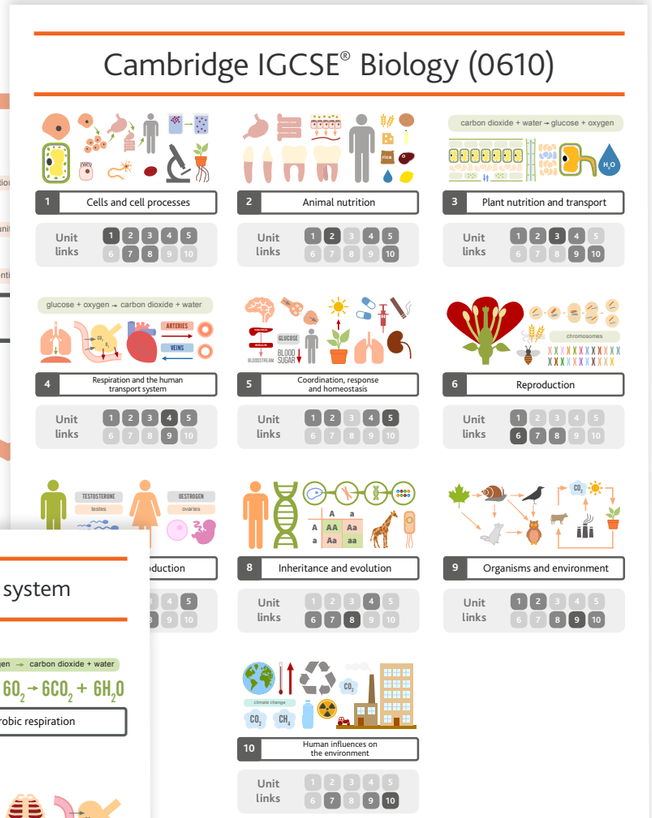
Test Maker

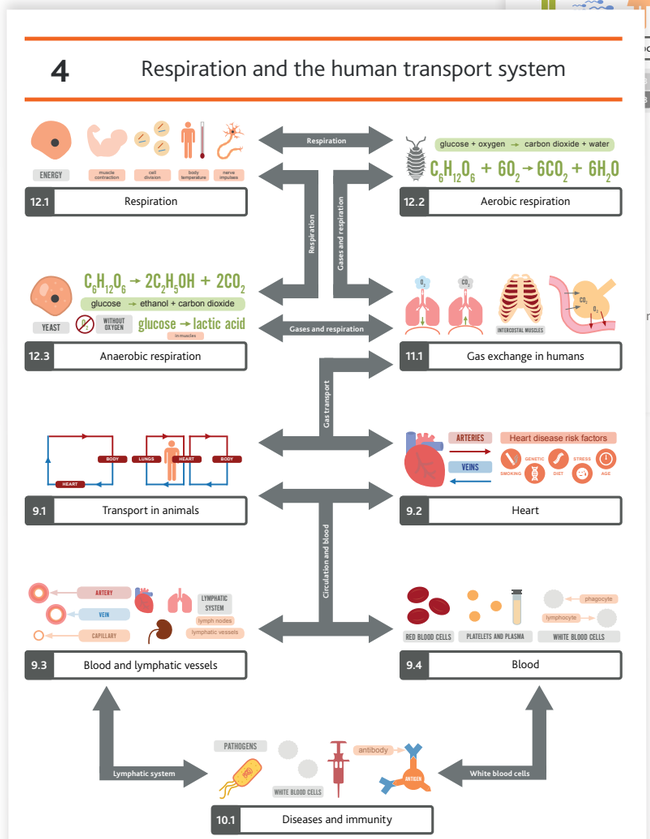
Test Maker is our online service that lets teachers create customised test papers for biology, chemistry and physics learners using Cambridge questions.

Topic connections









Numbers in the 'unit links' boxes indicate significant links between the different units.

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Scan
Visit the **School Support Hub** to learn more

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Endorsed resources

We know that every teacher has their own style in the classroom, and that is why we offer a wide range of high-quality resources to suit different teaching methods and types of learning.

Cambridge IGCSE™ Biology, Chemistry and Physics

For Cambridge IGCSE Biology syllabus (0610/0970), Cambridge IGCSE Chemistry syllabus (0620/0971), Cambridge IGCSE Physics syllabus (0625/0972) for examination from 2023.

Following extensive research, these resources have been designed to address common learner challenges, offering targeted support in scientific English, maths and practical skills.

- Develops scientific enquiry skills such as making predictions, recording observations, handling data, interpreting data and evaluating methods through practical activities.
- 'Experimental skills' feature encourages students to get involved with investigations and practise essential skills such as prediction and observation.
- Each chapter opens with a 'Science in context' discussion to engage students with the topic.
- Time-saving downloadable worksheets are in the digital teacher's resources, enabling you to support every learner.

New for 2026
Measure student understanding and adapt your teaching with our **new formative assessment digital tool**. Sign up to learn more.



Coursebooks

Teacher's resources

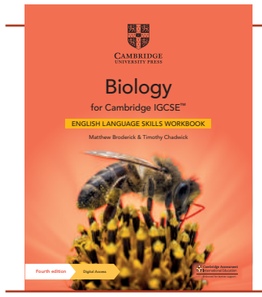
Workbooks

Practical workbooks

English language skills workbooks

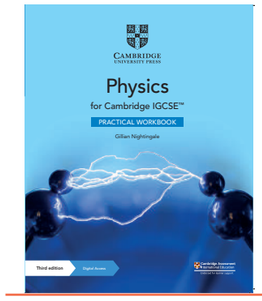
Maths skills for biology, chemistry and physics workbooks

Spotlight on



English language and maths skills workbooks

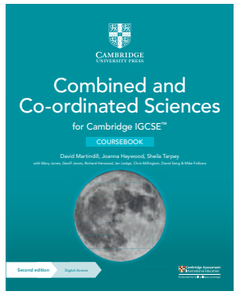
Provide targeted support for English and maths with additional activities, vocabulary support, worked examples and guidance on common misconceptions.



Practical workbooks

Focus on developing key practical skills, with step-by-step methods for investigations to support young scientists. Learners will practise choosing appropriate equipment, processing data and analysing results, as well as trying hands-on experimentation.

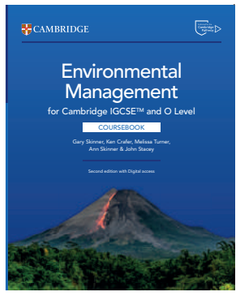
If a **resource is endorsed**, you can be **confident** it will **support teaching** and **learning our programme** or **qualification.**



Cambridge IGCSE™ Combined and Co-ordinated Sciences

Cambridge IGCSE Combined Science (0653) and Co-ordinated Sciences syllabuses (0654/0973) for examination from 2025.

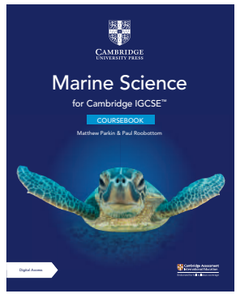
Based on our Cambridge IGCSE™ Biology, Chemistry and Physics series, covering all three sciences in one coursebook. Develops analysis, evaluation and problem-solving skills through an active learning approach of enquiry-led tasks, open-ended questions and opportunities to share thinking. It is supported by a teacher's resource, with a separate workbook available for each science.



Cambridge IGCSE™ and O Level Environmental Management

Cambridge IGCSE and O Level Environmental Management syllabuses (0680/5014) for examination from 2027.

Supports learners in exploring environmental issues, using scientific methods to assess strategies and impacts, understanding climate change, and building fieldwork skills. It is supported by a workbook and teacher's resource.



Cambridge IGCSE™ Marine Science

Cambridge IGCSE Marine Science syllabus (0697) for examination from 2024.

Students will take a deep dive into the fascinating ecosystems of the underwater world, including international case studies, discussion activities and support with practical work and mathematical skills.

Endorsed resources from other publishers

Cambridge International Education offers a range of endorsed resources for our Cambridge IGCSE Sciences in both print and digital formats, produced by other publishers including Collins, Hachette Learning, Kognity and Marshall Cavendish Education. For full details, visit the 'Endorsed resources' section on our website syllabus pages.

Scan to learn more

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Exam preparation and practice*

These resources provide dedicated support for students in preparing for their final assessments. They should be used alongside the coursebooks, throughout the course of study, so students can effectively increase their confidence and readiness for their exams.

Features include:

- Hundreds of auto-marked multiple-choice questions and flip card question for interactive learning (available on Cambridge GO).
- Three different types of question – knowledge recall, exam skills and self-assessment – to help students show what they know in an exam context.
- Self-assessment and reflection features that support students to identify any areas that need further practice.
- Specific guidance, tools and activities to help reduce exam anxiety.

Exam preparation and revision

Understand the questions: what are you being asked to do?

Know your question types

In any exam, there will be a range of different question types. These different question types will test different types of thinking skills from Bloom's Taxonomy.

It is very important that you learn to recognise different question types. If you do lots of past papers, over time you will begin to recognise the structure of the paper for each of your subjects. You will know which types of questions may come first and which

Support for exam anxiety

What has the impala got to do with your exams?

When you feel test anxiety, you have the same physiological stress responses as an impala being hunted by a lion. Unfortunately, the human nervous system cannot tell the difference between a life-threatening situation, such as being chased by a lion, and the stress of taking an exam.

If you understand how the stress response works in the human nervous system, you will be able to learn techniques to reduce test anxiety.



Recall and connect

9.1 Circulatory systems

1 What is a circulatory system?

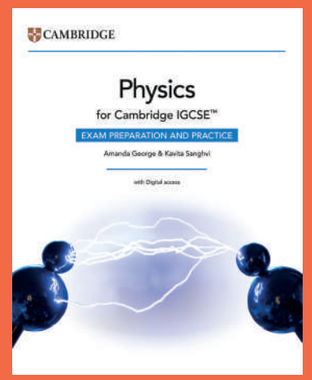
2 A fish has a single circulatory system, which is different in structure to the double circulatory system of a human.

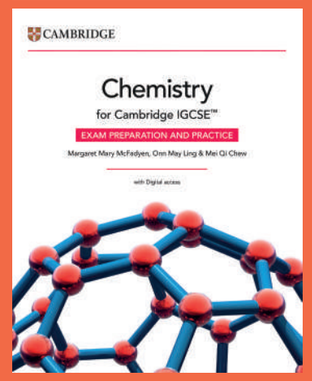
- **a** Describe the single circulatory system in a fish. [1]
- **b** Explain why a septum is not required in a single circulatory system. [2]
- **c** Suggest one advantage of a double circulation. [1]

[Total: 4]

« RECALL AND CONNECT 1 «

Look back at Chapter 7: Human nutrition. After the process of digestion in humans, absorption happens. Where does this happen and why is it important?









Reflection and self-assessment

REFLECTION

The different structures found within a microvillus have specific functions. How well do you think you can recall which function corresponds to which structure?

SELF-ASSESSMENT CHECKLIST

Let's revisit the Knowledge focus and Exam skills focus for this chapter.

Decide how confident you are with each statement.

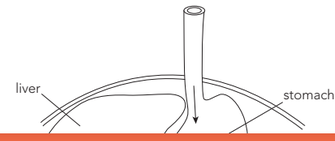
Exam questions...

Work through the question first, then compare your answer to the sample answer and commentary. Are your answers different to the sample responses? What information does this give you about your understanding of this topic?

6 Fat is a necessary component of the human diet.

- **a** State **three** ways in which the human body uses fat. [3]

The arrows in Fig 6.1 show the pathway of fat in part of the alimentary canal.



...and commentary

…se	Commentary
…e and …ation.	The student correctly identifies the role of fat in energy release and storage, which attracts two marks. Their reference to insulation gains a third. *This answer is awarded 3 out of 3 marks.*
	This is the expected answer and the mark can be awarded. *This answer is awarded 1 out of 1 mark.*
…and	The student correctly states that one product of fat digestion are fatty acids. However, the incorrect identification of glycogen, rather than

*These texts have not been through the endorsement process for the Cambridge Pathway. Any references or materials related to answers, grades, papers or examinations are based on the opinion of the author(s). The Cambridge syllabus or curriculum framework associated assessment guidance material and specimen papers should always be referred to for definitive guidance.

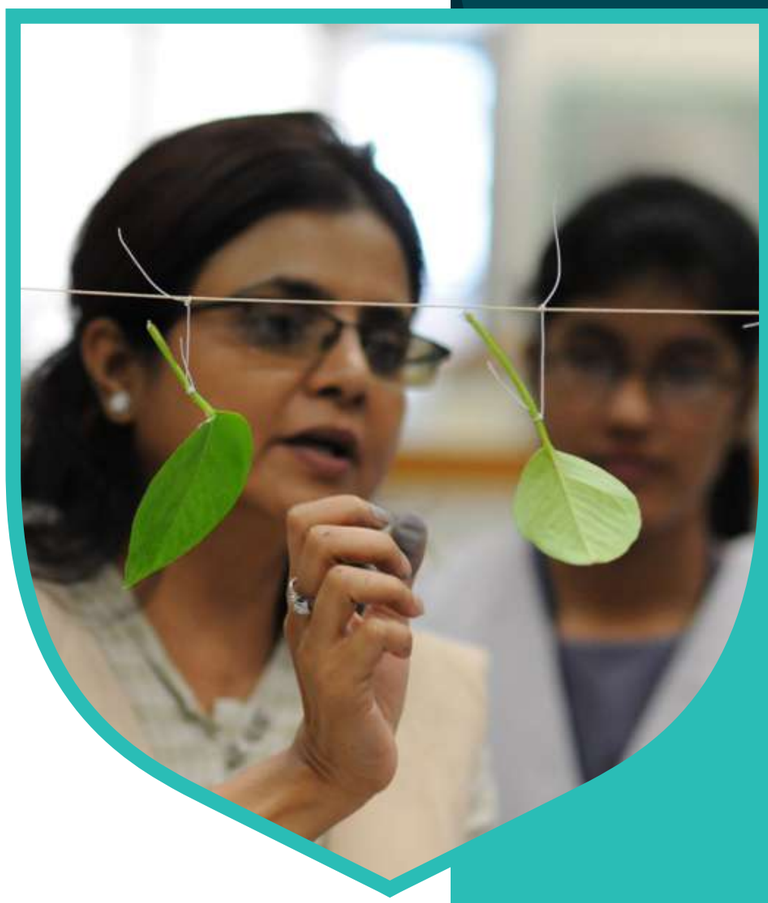
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The trainer delivered an outstanding workshop that was deeply appreciated by all who attended. Many of our teachers said this was the best workshop they have attended.

Enrichment workshop delegate

Professional development



We believe that supporting teachers in their professional development leads to improved outcomes for learners. Good quality professional development and reflective practice are essential parts of a teacher's professional life.

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- Introduction
- Focus on Assessment
- Focus on Teaching
- Marking workshops.

In addition, our Enrichment courses focus on specific skills or concepts to help transform classroom practice.

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From the **home of DNA's** discovery to your classroom

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Samantha Zhang, **Executive Principal, WHBC of Wuhan Foreign Languages School, China**



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